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## **FAX COVER SHEET**

Page 1 of \_\_5

DATE:

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Examiner: B. Souw

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Re:

Appl.#:

09/116,138

Atty Docket:

TI-24953

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**DEC** n 4 2000

Response Under 37 C.F.R. § 1.116 - Expedited Procedure

TECHNOLOGY CENTER 2800

Examining Group 2814

P.02/05

.R. § 1.116 - Expedited Procedure Response Under 37 Examining Gr up 2814

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Anthony et al.

Serial No.:

09/116,138 -

High Permittivity Silicate Gate Dielectric

Filed:

For:

07/15/98

Examiner: Art Unit:

D cket:

2814

TI-24953

B. Souw

# /6/KOP NE 12/8/00 Newsla

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AMENDMENT PURSUANT TO 37 C.F.R. § 1.116

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**FACSIMILE CERTIFICATE** 

I hereby certify that this correspondence is being transmitted by Facsimile to the Patent and Trademark Office in accordance with

37 C.F.R. §1.6d on

ecembe

November 29, 2000

Ass't Commissioner for Patents Washington, DC 20231

Examiner:

In response to the Office Action dated September 20, 2000, please consider the following remarks.

## REMARKS

Claims 1 - 30 and 36 - 45 are still pending in this application and have been rejected by Examiner.

1. The Office Action rejected Claims 1, 12 - 23, 26 - 30, 37, 38 and 40 under 35 U.S.C. § 103 as being unpatentable over the Hori patent (Hori '766), in view of the Hsieh et al. patent (Hsieh '035). Applicants respectfully traverse examiner's interpretation of the prior art as rendering the invention obvious over this patent. The Office Action notes that Hori '766 teaches how to form a FET with a silicon oxynitride gate dielectric. The Office Action also notes that Hsieh '035 teach how to use metal silicates as high permittivity capacitor dielectrics that minimize leakage currents. The Office Action then alleges it would be obvious to combine Hori '766's method of forming improved-mobility FETs having an oxynitride film with Hsieh '035's capacitor dielectric—and that this combination would form applicants' invention.